Intel nal Application No PCT/US2004/024657

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D213/75 C07D213/76 C07D213/71 A61K31/444 A61P3/06

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C07D} & \mbox{A61K} \end{array}$ 

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BEILSTEIN Data, CHEM ABS Data, EMBASE, BIOSIS, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	ne relevant passages	Relevant to claim No.
Х	WO 03/045921 A (DAISOW CO LTD KAZUMASA (JP); INOUE YOSHIKAZU MIKAMI MAS) 5 June 2003 (2003-see formulae page 13; see exam 214, 215 (p. 164-166), 368 (ppreparation 79 (p. 164).	l (JP); -06-05) mples 213.	1-10,16, 17
X	EP 1 180 514 A1 (MEIJI SEIKA K 20 February 2002 (2002-02-20) claim 1	(AISHA, LTD)	1-10
X	WO 02/102778 A (IWATA MASAHIRO NORIYUKI (JP); KOBAYASHI MIKI RYUSHI) 27 December 2002 (2002 the whole document	(JP): SEO	51-54,60
X Fur	ther documents are listed in the continuation of box C.	χ Patent family members are list	ed in annex.
"A" docum consi "E" earlier filling "L" docum which citatic "O" docum other "P" docum	ategories of cited documents:  tent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) tent referring to an oral disclosure, use, exhibition or means tent published prior to the international filing date but than the priority date claimed	"T" later document published after the or priority date and not in conflict wited to understand the principle or invention  "X" document of particular relevance; it cannot be considered novel or can involve an inventive step when the "Y" document of particular relevance; it cannot be considered to involve an document is combined with one or ments, such combination being ob in the art.  "&" document member of the same pate	rither application but theory underlying the section of the considered to document is taken alone to claimed invention inventive step when the more other such docuvious to a person skilled
	actual completion of the international search	Date of mailing of the international	search report
	l February 2005	15/02/2005	
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL - 2280 HV Riswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Authorized officer Steendijk, M	

4

tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
-& EP 1 396 487 A (YAMANOUCHI PHARMA CO LTD) 10 March 2004 (2004-03-10) p.24, ex.23;p.30, ex.21;p.33, ex 85;p.34, ex. 90,99	51-54,60
WO 02/088093 A (ABBOTT LAB) 7 November 2002 (2002-11-07) page 62; example 29b	51-53
WO 02/081453 A (OU KHAN; BOUBIA BENAISSA (FR); CHAPUT EVELYNE (FR); FOURNIER SA LAB () 17 October 2002 (2002-10-17) page 41; example XLVII	51,52, 55,56
WO 01/96327 A (DODIC NERINA; GLAXO GROUP LTD (GB)) 20 December 2001 (2001-12-20) see general formula p.4; see p. 28, intermediate 16	1-10
WO 01/68619 A (WARMUS JOSEPH SCOTT; WARNER LAMBERT CO (US); TECLE HAILE (US); BIWERS) 20 September 2001 (2001-09-20) page 85; example 119	51-54,60
EP 1 243 268 A (NIPPON SHINYAKU CO LTD) 25 September 2002 (2002-09-25)	29,30, 36, 51-56, 60-62,70
23,24,28 and prep.ex. 59,143,174,181,183	
WO 88/08424 A (UPJOHN CO) 3 November 1988 (1988-11-03) page 142, lines 2,3	51,52, 55,56,60
WO 88/07527 A (UPJOHN CO) 6 October 1988 (1988-10-06) page 31, line 9	51,52,55
JACOBSEN E JON ET AL: "2-(Aminomethyl)chromans that inhibit iron-dependent lipid peroxidation and protect against central nervous system trauma and ischemia" JOURNAL OF MEDICINAL CHEMISTRY, vol. 35, no. 23, 1992, pages 4464-4472, XP002314500 ISSN: 0022-2623 page 4466; example 14	51,52, 55,56,60
	Chatlon of document, with indication, where appropriate, of the relevant passages  -& EP 1 396 487 A (YAMANOUCHI PHARMA CO LTD) 10 March 2004 (2004-03-10) p.24, ex.23;p.30, ex.21;p.33, ex 85;p.34, ex. 90,99  WO 02/088093 A (ABBOTT LAB) 7 November 2002 (2002-11-07) page 62; example 29b  WO 02/081453 A (OU KHAN; BOUBIA BENAISSA (FR); CHAPUT EVELYNE (FR); FOURNIER SA LAB () 17 October 2002 (2002-10-17) page 41; example XLVII  WO 01/96327 A (DODIC NERINA; GLAXO GROUP LTD (GB)) 20 December 2001 (2001-12-20) see general formula p.4; see p. 28, intermediate 16  WO 01/68619 A (WARMUS JOSEPH SCOTT; WARNER LAMBERT CO (US); TECLE HATLE (US); BIWERS) 20 September 2001 (2001-09-20) page 85; example 119  EP 1 243 268 A (NIPPON SHINYAKU CO LTD) 25 September 2002 (2002-09-25)  see page 3, formula 1a; see ref.ex. 23,24,28 and prep.ex. 59,143,174,181,183  WO 88/08424 A (UPJOHN CO) 3 November 1988 (1988-11-03) page 142, lines 2,3  WO 88/07527 A (UPJOHN CO) 6 October 1988 (1988-10-06) page 31, line 9  JACOBSEN E JON ET AL: "2-(Aminomethyl)chromans that inhibit iron-dependent 11p1d peroxidation and protect against central nervous system trauma and ischemia" JOURNAL OF MEDICINAL CHEMISTRY, vol. 35, no. 23, 1992, pages 4464-4472, XP002314500 ISSN: 0022-2623 page 4466; example 14

Intermional Application No PCT/US2004/024657

2 (0	ALL A DOCUMENTO COMPONENTE DE DE DE LA COMPONENTE DE DE LA COMPONENTE DE DE LA COMPONENTE DE DE LA COMPONENTE DE LA COMPONENT	PC1/US2004/U2405/
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JACOBSEN E J ET AL: "NOVEL 21 AMINOSTEROIDS THAT INHIBIT IRON-DEPENDENT LIPID PEROXIDATION AND PROTECT AGAINST CENTRAL NERVOUS SYSTEM TRAUMA" JOURNAL OF MEDICINAL CHEMISTRY, vol. 33, no. 4, 1990, pages 1145-1151, XP002314501 ISSN: 0022-2623 page 1184; example 8	51,52, 55,60
X .	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; DN: 87:201475 1977, THUNUS: "Synthesis and pharmacological" XP002314502 retrieved from STN Database accession no. 1977:601475 see RN: 64614-65-9, 64614-66-0, 64614-67-1, 64614-68-2, 64614-69-3, 64614-85-3, 64614-86-4, 64614-87-5, 64614-88-6, 64614-89-7 abstract & AN. PHARM.FR., vol. 35, no. 5-6, 1977, pages 197-203,	61,70
X	EP 0 385 350 A (NISSHIN FLOUR MILLING CO) 5 September 1990 (1990-09-05) claim 1	1-3
A	WO 01/62954 A (UNIV BRITISH COLUMBIA; XENON GENETICS INC (CA); WISCONSIN ALUMNI RES) 30 August 2001 (2001-08-30) page 51	1-70
P,A	WO 03/075929 A (MEERPOEL LIEVEN; JANSSEN PHARMACEUTICA NV (BE); VAN BRANDT SVEN FRANC) 18 September 2003 (2003-09-18) cited in the application claim 1	1-70
P,X	WO 03/066604 A (BOEHRINGER INGELHEIM INT; DOERWALD FLORENCIO ZARAGOZA (DK); PETTERSSO) 14 August 2003 (2003-08-14) pages 39-40 examples 33,36,37,39,40,121	1-7
Ρ,Χ	WO 03/091247 A (CHEN YIYUAN; CARROLL JEFFERY N; BOEHM TERRI L (US); BROWN DAVID L (US) 6 November 2003 (2003-11-06) claims 76,78,79	51,52,60
P,X	WO 2004/035549 A (OGNYANOV VASSIL I; AMGEN INC (US); BALAN CHENERA (US); BO YUNXIN (US)) 29 April 2004 (2004-04-29) page 131	51,52, 55,56,60
	-/	}

Internation No PCT/US2004/024657

		PC1/05200	C17US2004/024657					
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT  Category Citation of document, with Indication, where appropriate, of the relevant passages  Relevant to claim No.								
Category •	Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.					
P,X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) -& JP 2004 203871 A (YAMANOUCHI PHARMACEUT CO LTD), 22 July 2004 (2004-07-22) see ex. 43,150,156,158,166,171 abstract		51-55,60					
		,						

4

International Application No PC1/US2004/024657

Patent document ited in search report	}	Publication date		Patent family member(s)	F	Publication date
0 03045921	Α	05-06-2003	AU	2002344567 A	1 1	0-06-2003
			CA	2468716 A		5-06-2003
			EP	1472226 A		3-11-2004
			WO	03045921 A		5-06-2003
			EP	1383760 A		8-01-2004
			JP	2004532856 T		8-10-2004
			บร	2004157866 A		2-08-2004
		00 00 000				
EP 1180514	A1	20-02-2002	AU	3675900 A		4-11-2000
			BR	0009650 A	_	2-01-2002
			CA	2369103 A		9-10-2000
			US	6777414 B		7-08-2004
			WO	0061556 A		9-10-2000
			US	2004224959 A	·]	1-11-2004
WO 02102778	A	27-12-2002	BR	0210030 A		10-08-2004
			CA	2448298 A		27-12-2002
			EP	1396487 A	\1 1	10-03-2004
			WO	02102778 A	11 2	27-12-2002
			JP	2003064057 A		05-03-2003
			US	2004192701 A		30-09-2004
EP 1396487	A	10-03-2004	BR	0210030 A		 10-08-2004
m. 103070/	,,	10 00 2007	CA	2448298 <i>F</i>		27-12-2002
			ΕP	1396487		27-12-2002 10-03-2004
			ÜS	2004192701		30-03-2004 30-09-2004
			WO	02102778		27-12-200 <i>2</i>
			JP	2003064057		05-03-200;
 WO 02088093	A	07-11-2002	us			
MO 05000033	М	0/-11-2002	US	2003008878 A 2002169166 A		09-01-2003
		•				14-11-2002
			CA	2439943 /		07-11-200
			CZ EP	20032659 /		14-01-200
			HU	1373220 /		02-01-2004
			NO	0303413 / 20033959 /		28-01-2004
			SK			10-11-200
			MO 2K	12612003 /		06-04-200
				02088093 <i>/</i>		07-11-200: 
WO 02081453	Α	17-10-2002	FR	2823209		11-10-200
			BR	0207910 /		03-08-200
			CA	2444024		17-10-200
			CZ	20032696		17-12-200
			EΕ	200300485		16-02-200
			EP	1373219		02-01-200
			WO	02081453	A1	17-10-200
			JP	2004525175		19-08-200
			NO	20034430		06-10-200
			SK	12332003		06-04-200
			US	2004116417		17-06-200
WO 0196327	Α	20-12-2001	AU	8179801	 A	24 <b>-</b> 12-200
	••		WO	0196327		20-12-200
			EP	1289982		12-03-200
			JP	2004503549		05-02-200
			ÜS	2004009988		15-01-200

Interplonal Application No PCT/US2004/024657

		<del></del> -				2004/02465/
	ent document In search report		Publication date		Patent family member(s)	Publication date
WO (	0168619	Α		BR	0109188 A	18-03-2003
				CA	2403017 A1	20-09-2001
				EP	1339702 A1	03-09-2003
				JP	2003527379 T	16-09-2003
				WO	0168619 A1	20-09-2001
EP :	1243268	Α	25-09-2002	ΑU	1887401 A	25-06-2001
				EP	1243268 A1	25-09-2002
				WO	0143746 A1	21-06-2001
WO	8808424	Α	03-11-1988	AU	624788 B2	25-06-1992
				AU	1709888 A	02-12-1988
				CA	1338012 C	30-01-1996
				DK	533589 A	26-10-1989
				EP	0293078 A1	30-11-1988
				EP	0358676 A1	21-03-1990
				ΕP	0487510 A1	27-05-1992
				JP	7103118 B	08-11-1995
				JP	2503198 T	04-10-1990
				KR	9601920 B1	06-02-1996
				WO	8808424 A1	03-11-1988
				US	5120843 A	09-06-1992
WO	8807527	Α	06-10-1988	AU	1704588 A	02-11-1988
				EP	0354920 A1	21-02-1990
				JP	2502824 T	06-09-1990
				MO	8807527 A1	06-10-1988
				US	4996318 A	26-02-1991
EP	0385350	Α	05-09-1990	DE	69014351 D1	12-01-1995
				DE	69014351 T2	20-04-1995
				EP	0385350 A1	05-09-1990
				KR	130758 B1	09-04-1998
				US	4994456 A	19-02-1991
				CA	2011143 A1	01-09-1990
			,	JP	2843632 B2	06-01-1999
			من مناور في ورد اي ده في من	JP	3007258 A	14-01-1991
WO	0162954	Α	30-08-2001	AU	4722801 A	03-09-2001
				CA	2398940 A1	30-08-2001
				DE	01920143 T1	19-05-2004
				EP	1315831 A2	04-06-2003
				JP	2003533978 T	18-11-2003
				MO	0162954 A2	30-08-2001
				US	2003157552 A1	21-08-2003
WO	03075929	Α	18-09-2003	BR	0307575 A	21-12-2004
				BR	0307606 A	21-12-2004
				BR	0307607 A	21-12-2004
				BR	0307624 A	11-01-200
				BR	0308081 A	21-12-2004
				CA	2475764 A1	18-09-2003
				$\sim$ $\sim$	2475766 A1	18-09-2003
				CA		
				CA	2476065 A1	18-09-2003
				CA CA	2476065 A1 2476067 A1	18-09-2003
				CA CA CA	2476065 A1 2476067 A1 2476186 A1	18-09-2003 18-09-2003
				CA CA	2476065 A1 2476067 A1	18-09-2003

intentional Application No
Internal Application No PCT/US2004/024657

				l. '	017037	2004/02465/
Patent document cited in search report		Publication date	_	Patent family member(s)		Publication date
WO 03075929	Α		CA	2476586	A1	18-09-2003
			WO	03076438		18-09-2003
			WO	03076421		18-09-2003
			WO	03076395	A1	18-09-2003
			WO	03076430	A1	18-09-2003
			WO	03076400	A1	18-09-2003
			WO	03075929	A1	18-09-2003
			WO	03076422	A1	18-09-2003
			WO	03076401	A1	18-09-2003
			EP	1485364	A1	15-12-2004
			EP	1485348	A1	15~12-2004
			ΕP	1485370	A1	15~12~2004
			EP	1485378	A1	15-12-2004
			EP	1485353	A1	15-12-2004
			EP	1485099		15-12-2004
			EP	1485365		15-12-2004
			EP	1485354	A1	15-12-2004
WO 03066604	Α	14-08-2003	AU	2003203148	A1	02-09-2003
			BR	0307429	Α	28-12-2004
			CA	2474214	A1	14-08-2003
			WO	03066604		14-08-2003
			EP	1474401		10-11-2004
			US	2003236259	A1	25-12-2003
WO 03091247	Α	06-11-2003	CA	2483314		06-11-2003
			WO	03091247	A2	06-11-2003
			US	2005009838	A1	13-01-2005
WO 2004035549	Α	29-04-2004	WO	2004035549	A1	29-04-2004
			US	2004152690		05-08-2004